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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,720	01/27/2004	Scott Adams	4341P053D2	3457
7590 10/13/2004 ·			EXAMINER	
Lester J. Vince	ent	TAMAI, KARLI		
BLAKELY, SO	KOLOFF, TAYLOR & 2	ZAFMAN LLP		
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			2834	
Los Angeles, C	A 90025			

DATE MAILED: 10/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/766,720	ADAMS ET AL.				
		Examiner	Art Unit				
		Tamai IE Karl	2834				
Period fo	The MAILING DATE of this communicator Or Reply	tion appears on the cover sheet	vith the correspondence addre	SS			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3' SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statuto are to reply within the set or extended period for reply will, reply received by the Office later than three months after red patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of the complex of the comp	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this commi ABANDONED (35 U.S.C. § 133).	unication.			
Status							
1)🖂	Responsive to communication(s) filed of	on <u>09 August 2004</u> .					
2a)□	•						
3)□							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	•					
4)⊠	Claim(s) 23-34 and 106 is/are pending	in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) 23-34 is/are rejected.						
7)🖂	Claim(s) <u>106</u> is/are objected to.						
8)□	Claim(s) are subject to restriction	n and/or election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the E	xaminer.					
10)🛛	10)⊠ The drawing(s) filed on <u>09 August 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)□	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for ☐ All b)☐ Some * c)☐ None of:	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
- ,	1. Certified copies of the priority do	cuments have been received.					
	2. Certified copies of the priority do		Application No				
	3. Copies of the certified copies of t	he priority documents have bee	n received in this National Sta	age			
	application from the International	Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	• •						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
	e of Drattsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO		f Informal Patent Application (PTO-15	52)			
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Specification

1. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 23-30, 32, and 34 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Yamada et al. (Yamada)(US 5959760). Yamada teaches a central stage 2 connected to a movable frame 11 by a plurality of torsion beams 14a,b and a fixed frame 1 connected to the movable frame 11 by a plurality of torsion beams 3a,b, wherein the central stage and the movable frame are capable of decoupled motion. The central stage having first blades perpendicular to the stage and parallel to second blades 15 a,b on the moving frame 11. The moving frame inherently has a main body couple to the second flexure and an end bar couple to the first flexure with a support member inbetween. The torsion beams being collinear (non-parallel).

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (Yamada)(US 5959760) and Pember et al. (Pember)(GB 2275787). Yamada teaches every aspect of the invention except the non-perpendicular support body. Pember shows the equivalence of the support body of the moving frame being perpendicular to the main body and end portions (figure 2) and at a 45 degree angle (element 2 in figure 3). It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the actuator of Yamada with the support member connect to the end bar and main body at a non-perpendicular angle to provide

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a small lightweight mirror, as taught by Pember, and because it is within the ordinary

skill in the art to choose between known equivalents.

7. Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada

et al. (Yamada)(US 5959760) and Knipe et al. (Knipe)(US 5739941). Yamada teaches

every aspect of the invention except the torsion springs being a pair of torsion springs

parallel. Knipe teaches the equivalence of the torsion springs being parallel, non

parallel, or a single beam (figures 3, 4, 5). It would have been obvious to a person of

ordinary skill in the art at the time of the invention to construct the actuator of Yamada

with the parallel torsion springs of Knipe to provide sufficient restoring forces to the

frame and stage, and because it is within the ordinary skill in the art to choose between

known equivalents.

Allowable Subject Matter

- 8. Claim 106 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 2036.

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The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (703) 872 - 9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER October 7, 2004

RARL TAMAI

PRIMARY EXAMINER

EXAMINER